

WHAT IS CLAIMED IS:

1. A system for managing information comprising:  
a communication request monitor unit which monitors  
a communication request;

5 a management unit which selects a countermeasure based  
upon information notified from the communication request  
monitor unit; and

a performing unit which performs the countermeasure  
in response to an instruction from the management unit,  
10 wherein said management unit includes,

a database which manages a notification content  
from the communication request monitor unit and a  
countermeasure that the performing unit performs while  
letting the notification content and the countermeasure  
15 correspond to each other; and

a selection unit which selects a countermeasure  
based upon the database.

2. The system according to claim 1, further comprising  
20 an information collection unit which collects information  
related to the kind, content, order, and time interval of  
two or more communications in a proceeding process of an  
attack event or a leakage event and a reflection unit which  
reflects the information collected and regulated by the  
25 information collection unit upon the database.

3. The system according to claim 1, wherein the selection unit selects a countermeasure from various angles based upon the database and mounting information, operation management information, and/or security information.

5

4. The system according to claim 3, wherein based upon which of the mounting information, the operation management information and/or the security information a countermeasure is selected can be setting-changed according  
10 to the selection of a user.

5. The system according to claim 1, wherein the communication request monitor unit, management unit, and the performing unit are provided in plurality.

15

6. The system according to claim 5, wherein the communication request monitor units, management units, and the performing units cooperate with each other between the same type or different types thereof to exchange information.

20

7. The system according to claim 1, wherein the information notified by the communication request monitor unit and/or a countermeasure selected by the management unit are weighted.

25

8. The system according to claim 7, wherein a weight coefficient for the weighting can be arbitrarily set by a user.

5 9. The system according to claim 7, wherein a weight coefficient for the weighting is set based upon the mounting information, operation management information and/or security information.

10 10. The system according to claim 1, wherein the database holds information notified by the communication request monitor unit in time series, and the selection unit selects a countermeasure based upon the time series information stored in the database.

15

11. The system according to claim 5, further comprising a site map formation unit which forms a site map representing a spatial arrangement of a website based upon the information notified by the plural communication request monitor unit.

20

12. The system according to claim 7, further comprising a site map formation unit which forms a site map representing a spatial arrangement of a website based upon the information notified by the plural communication request monitor unit.

25

13. The system according to claim 10, further comprising a site map formation unit which forms a site map representing a spatial arrangement of a website based upon the information notified by the plural communication request monitor unit.

5

14. The system according to claim 5, further comprising a monitor condition notification unit which notifies the communication request monitor unit of the kind and/or time of a communication to be a monitor object based upon the  
10 a site map formed by the site map formation unit.

15. The system according to claim 7, further comprising a monitor condition notification unit which notifies the communication request monitor unit of the kind and/or time  
15 of a communication to be a monitor object based upon the a site map formed by the site map formation unit.

16. The system according to claim 10, further comprising a monitor condition notification unit which notifies the communication request monitor unit of the kind and/or time  
20 of a communication to be a monitor object based upon the a site map formed by the site map formation unit.

17. The system according to claim 1, wherein the management unit gives a request to a website existing in a network and automatically updates the database based upon information replied in response to the request.

5

18. The system according to claim 17, wherein the request is performed in response to a request of a user.

19. The system according to claim 1, wherein the management  
10 unit automatically updates the database based upon information automatically transmitted from a website existing in a network.

20. The system according to claim 19, wherein the information automatically transmitted from a website  
15 existing in a network are taken in the database in response to a request of a user.

21. The system according to claim 1, further comprising  
20 a vulnerability present unit which provides vulnerability of the system; and an information collection unit which collects information related to an attack the vulnerability presented by the vulnerability present unit.

25

22. The system according to claim 1, further comprising  
an investigation unit investigating an outgoing source of  
a communication content and a determination unit which  
determines whether or not a website is made a stepping-stone  
5 by an ill-intentioned person based upon an investigation  
result by the investigation unit.

23. The system according to claim 1, further comprising  
a decoy unit leading a communication to a location different  
10 from an attack object to avoid an attack.

24. A method of managing information comprising:  
a communication request monitor step monitoring a  
communication request by a communication request monitor  
15 unit;  
a selection step in which a management unit selects  
a countermeasure based upon a database which manages a  
notification content notified by the communication request  
monitor step and a countermeasure performed while making  
them correspond to each other; and  
20 a performing step in which a performing unit performs  
a countermeasure in response to an instruction from the  
management step.

25. The method according to claim 24, further comprising  
an information collection step collecting information  
related to the kind, content, order, and time interval of  
two or more communications in a proceeding process of an  
5 attack event or a leakage event and a reflection step  
reflecting the information collected and regulated by the  
information collection step upon the database.

26. The method according to claim 24, wherein the selection  
10 step selects a countermeasure from various angles based upon  
the database and mounting information, operation management  
information, and/or security information.

27. The method according to claim 26, wherein based upon  
15 which of the mounting information, the operation management  
information and/or the security information a  
countermeasure is selected can be setting-changed according  
to the selection of a user.

20 28. The method according to claim 24, wherein the  
communication request monitor unit, management unit, and  
the performing unit are provided in plurality.

29. The method according to claim 28, wherein the respective plurality of communication request monitor units, management units, and performing units cooperate with each other between the same type or different types thereof to  
5 exchange information.

30. The method according to claim 24, wherein the information notified by the communication request monitor unit and/or a countermeasure selected by the management unit  
10 are weighted.

31. The method according to claim 30, wherein a weight coefficient for the weighting can be arbitrarily set by a user.

15

32. The method according to claim 30, wherein a weight coefficient for the weighting is set based upon the mounting information, operation management information and/or security information.

20

33. The method according to claim 24, wherein the database holds information notified by the communication request monitor unit in time series, and the selection step selects a countermeasure based upon the time series information  
25 stored in the database.

34. The method according to claim 28, further comprising  
a site map formation step forming a site map representing  
a spatial arrangement of a website based upon the information  
notified by the communication request monitor units.

5

35. The method according to claim 30, further comprising  
a site map formation step forming a site map representing  
a spatial arrangement of a website based upon the information  
notified by the communication request monitor units.

10

36. The method according to claim 33, further comprising  
a site map formation step forming a site map representing  
a spatial arrangement of a website based upon the information  
notified by the communication request monitor units.

15

37. The method according to claim 28, further comprising  
a monitor condition notification step notifying the  
communication request monitor units of the kind and/or time  
of a communication to be a monitor object based upon the  
20 a site map formed by the site map formation step.

38. The method according to claim 30, further comprising  
a monitor condition notification step notifying the  
communication request monitor units of the kind and/or time  
25 of a communication to be a monitor object based upon the

a site map formed by the site map formation step.

39. The method according to claim 33, further comprising  
a monitor condition notification step notifying the  
5 communication request monitor units of the kind and/or time  
of a communication to be a monitor object based upon the  
a site map formed by the site map formation step.

40. The method according to claim 24, wherein the  
10 management unit gives a request to a website existing in  
a network and automatically updates the database based upon  
information replied in response to the request.

41. The method according to claim 40, wherein the request  
15 is performed in response to a request of a user.

42. The method according to claim 24, wherein the  
management unit automatically updates the database based  
upon information automatically transmitted from a website  
20 existing in a network.

43. The method according to claim 42, wherein the database  
is automatically update based on the information transmitted  
from a website existing in a network in response to a request  
25 of a user.

44. The method according to claim 24, further comprising  
a vulnerability present step of providing vulnerability of  
the system; and an information collection step collecting  
information related to an attack against the vulnerability  
5 provided in the vulnerability present step.

45. The method according to claim 24, further comprising  
an investigation step investigating an outgoing source of  
a communication content and a determination step determining  
10 whether or not a website is made a stepping-stone by an  
ill-intentioned person based upon an investigation result  
by the investigation step.

46. The method according to claim 24, further comprising  
15 a decoy unit leading a communication to a location different  
from an attack object to avoid an attack.

47. A computer readable medium for storing instructions,  
which when executed on a computer, causes the computer to  
20 perform the steps of:

monitoring communication requests;  
outputting a notification in case of a abnormality;  
selecting a countermeasure from a database which  
manages content of notification and corresponding  
25 countermeasure; and

taking a countermeasure against the abnormality based  
on the selected countermeasure.